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Data Sheet

August 2, 2026

ASTRONICS / BALLARD TECHNOLOGY

Astronics / Ballard Technology 112-000-000 OmniBus PCI Databus Interface Module

Astronics / Ballard Technology 112-000-000 OmniBus PCI Databus Interface Module Overview

The Astronics / Ballard Technology 112-000-000 (112000000) is a two-core OmniBus PCI carrier platform for modular avionics databus test and simulation. Protocol functionality is provided by separately ordered OmniBus daughtercards (MIL-STD-1553, ARINC 429, ARINC 708, ARINC 717, serial, discrete I/O, and related protocols). Each core accepts one daughtercard module, enabling mixed-protocol configurations on a single PCI host card. OmniBus architecture adds processing resources for high channel counts and multi-protocol applications compared with simpler single-protocol PCI cards.

**MODEL****Astronics / Ballard
Technology 112-
000-000****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****112-000-000****LISTING**<https://aumictechlabs.com/products/112-000-000-2/>

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NAICS 423690 • 811210 • 541380

This unit

The Astronics/Ballard Technology 112-000-000 OmniBus PCI Databus Interface Module is a high-density, modular PCI interface for simulating, monitoring, and testing avionics databuses. Each module integrates its own Digital Signal Processor (DSP) to prevent host processor overload and enable high channel counts with mixed protocol support in a single card. Technical Specifications

Interface & Architecture PCI form factor with modular, reconfigurable design On-board PowerPC® processor for independent or off-loaded operation User-programmable with non-volatile memory and automatic boot capability 48-bit hardware time-tagging at 1 µSec resolution (select models) Protocol Support MIL-STD-1553 (up to 4 databuses) ARINC 429 (up to 32 databuses) ARINC 717 (up to 16 databuses) ARINC 708 (up to 8 databuses) ARINC 575, ARINC 573, ARINC 453 RS-232/422/485 serial ports (up to 8) Avionics discrete I/O (up to 64), including 16 bidirectional TTL-level discretes Custom protocols available upon request Timing & Synchronization IRIG time-code circuits for channel, board, and external equipment synchronization Internal or external IRIG time sourcing Advanced timing: IRIG, 10 MHz, and PPS Built-in Test PBIT (Power-On Built-In Test) IBIT (Initiated Built-In Test) CBIT (Continuous Built-In Test) Key Features Modular architecture supports protocol and channel count expansion Dedicated DSP per module eliminates data loss from host processor saturation Space-efficient design reduces computer footprint requirements Flexible processing with multiple on-board processors Typical Applications Avionics databus simulation, hardware-in-the-loop testing, multi-protocol monitoring, real-time databus analysis. Compatibility & Integration Works with CoPilot® analysis software and supports Universal BTIDriver™ API for custom application development. Compatible with other Ballard hardware platforms.

Features & description

From manufacturer datasheet

Features

- OmniBus PCI two-core carrier (112 platform)
- Protocol daughtercards sold separately
- Modular multi-protocol avionics databus architecture
- Supports 1553 / 429 / 708 / 717 / serial / discrete via cards
- Dual on-board cores for expanded processing and I/O
- Part of Ballard OmniBus product line (PCI / cPCI / VME / OmniBusBox families)
- EOL status on 4th-generation OmniBus PCI (OEM PCN class)
- Related populated examples: 112-544-423 (1553 + ARINC 429)

112000000 Characteristics / Specifications

PARAMETER	VALUE
Model	112-000-000 (112000000)
Manufacturer	Astronics Ballard Technology
Instrument Type	OmniBus PCI databus interface carrier (cores only)
Host Bus	PCI
Platform Code	112 = PCI with 2 cores (OmniBus numbering)
Cores	2 (each accepts one OmniBus daughtercard module)
Protocols	none on base carrier—via daughtercards (1553, ARINC 429, etc.)
Daughtercards	sold separately; one module per core
Product Line	OmniBus 4th generation PCI (EOL per Astronics PCN)
Suggested Alternates (EOL notice)	LP1553-5, LP429-5, PCIe 212-xxx-xxx, PXIe 222-xxx-xxx class
Use	simulation, monitoring, and testing avionics databuses Standard Operating Conditions Install incompatible PCI slot with adequate airflow. Populate each core with the correct daughtercard for the target protocol. Use Ballard CoPilot / driver software matched to the installed module set.
Related populated examples	112-544-423 (1553 + ARINC 429)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Use	simulation, monitoring, and testing avionics databuses
Standard Operating Conditions	
Install incompatible PCI slot with adequate airflow. Populate each core with the correct daughtercard for the target protocol. Use Ballard CoPilot / driver software matched to the installed module set.	
Operational Notes	
112-000-000 isabare carrier-confirm daughtercards are installed before expecting bus traffic. Match part number to populated configs (e.g. 112-544-423) when quoting complete systems. 4th-gen OmniBus PCI is EOL; plan spares and migration to OmniBus II / LP1553-5 / LP429-5 class for new designs.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.